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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,023	12/31/2003	Ho Lee	AB-1350 US	9344
7:	590 03/23/2006		EXAM	INER
David W. Heid			LUND, JEFFRIE ROBERT	
MacPherson Ky	wok Chen & Heid LLP		<u></u>	
Suite 226			ART UNIT	PAPER NUMBER
1762 Technology Drive			1763	
San Jose, CA 95110			DATE MAILED: 03/23/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

Cu

	Application No.	Applicant(s)	
	10/750,023	LEE, HO	
Office Action Summary	Examiner	Art Unit	
	Jeffrie R. Lund	1763	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was preply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
 1) Responsive to communication(s) filed on 12 Ja 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allower closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro		
Disposition of Claims			
 4) Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.		
Application Papers			
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 31 December 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Ex	re: a) \square accepted or b) \square objected or by \square objected as a consisting on the drawing (s) is object or is required if the drawing (s) is objected.	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 4-6, and 8-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Hillman, US Patent 5,997,649.

Hillman teaches a CVD apparatus that includes: a processing chamber 10 with an inner space 20; a gas feed member 68 for supplying a gas into the chamber; an metal diffuser 44 partitioning the inner space of the chamber into a first and second partitions, having a plurality of holes, and includes an extension overlapping a surface of a quartz insulating frame 52; the ceramic insulating frame is disposed in between the chamber and the diffuser, and located on the upper surface of the extension; and an RF source 60 connected to the diffuser and the pedestal is grounded. (Entire document, specifically Figure 1) The specific substrate processed is an intended use of the apparatus and the apparatus of Hillman can inherently process any desired substrate.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 2, 3, 7, 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hillman, US Patent 5,997,649 in view of Zhao et al, US Patent 5,558,717.

Hillman was discussed above.

Hillman differs from the present invention in that Hillman does not teach that the extension is an "L" shape, the metal diffuser is made out of aluminum, or a blocking plate.

Zhao et al teaches an aluminum diffuser having an "L" shape extension and a blocking plate.

The motivation for making the diffuser of Hillman out of aluminum is to provide a specific metal from which to make the diffuser as taught by Zhao et al.

The motivation of making the extension of "L" shaped is to provide an alternate shape. Furthermore, it has been held that a change in shape is a matter of choice, which a person of ordinary skill in the art would have found obvious. (See *In re Dailey*, 357 F.2d 669,149 USPQ 47 (CCPA 1966) MPEP 2144.04(d))

The motivation for adding a blocking plate to the apparatus of Hillman is to more uniformly distribute the processing gases as taught by Zhao et al.

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to make the diffuser of Hillman out of aluminum, to make the extension "L" shaped, and add the diffuser as taught by Zhao et al.

Response to Arguments

5. Applicant's arguments with respect to claims 1-12 have been considered but are

moot in view of the new ground(s) of rejection.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrie R. Lund whose telephone number is (571) 272-1437. The examiner can normally be reached on Monday-Thursday (6:30 am-6:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on (571) 272-1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jeffrie R. Lund Primary Examiner Art Unit 1763 Page 4

JRL 3/20/06